

APPARATUS AND METHOD FOR POLYMER SYNTHESIS USING ARRAYS

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US5106583

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A polymer synthesis method and apparatus (20) is disclosed for building a polymer chain including a head assembly (21) having nozzles (22) with each nozzle coupled to a reservoir (23) of liquid reagent (24), and a base assembly (25) having reaction wells (26). A gas inlet (70) into the common chamber (31), upstream from the nozzles (22), and a gas outlet (71) out of the common chamber (31), downstream from the nozzles (22), sweeps the common chamber (31) of toxic fumes emitted by the reagents. A pressure regulating device (82) is provided for controlling a pressure differential, between pressure exerted on the

reaction well (26) and pressure exerted on an exit (80) of the orifice (74), such that upon the pressure differential exceeding a predetermined amount, the reagent solution (76) is expelled.

